ATTY. DOCKET NUMBER: EM/2848

THE COMMISSIONER OF PATENTS AND TRADEMARKS Washington, D.C. 20231

74277 U.S. PTO 08/866345 05/30/97

Sir:

Trunsmitted herewith for filing under 35 USC 111 and 37 CFR 1.53 is the Design Utility patent application of: NVENTOR: Chung-len PAI								
Enclosed are: S	Transmitted herewith for filing under 35 USC 111 and 37 CFR 1.53 is the □ Design ☑ Utility patent application of:							
Enclosed are: S	INVENTOR: Chung-Jen PAI							
10 page(s) of written description, claims and abstruct. 10		ENTITLED: IM	PROVED GRI	INDER				
10 page(s) of written description, claims and abstruct. 10								
An assignment of the inventor (s). A certified copy of . Priority is claimed if not already of record. A verified copy of . Priority is claimed if not already of record. A verified copy of . Priority is claimed if not already of record. A verified tatement to establish small entity status under 37 CFR 1.9 and 37 CFR 1.27. Preliminary amendment. Information Disclosure Statement with references	Enclose	ed are:						
□ An assignment of the invention to □ Executed declaration of the inventor(s). □ A certified copy of . Priority is claimed if not already of record. □ A verified statement to establish small entity status under 37 CFR 1.9 and 37 CFR 1.27. □ Preliminary amendment. □ Information Disclosure Statement with references The filing fee has been calculated as shown below: □ ITEM AS FILED	2 19 page(s) of written description, claims and abstract.							
Executed declaration of the inventor(s). A certified copy of . Priority is claimed if not already of record. A verified statement to establish small entity status under 37 CFR 1.9 and 37 CFR 1.27. Preliminary amendment. Information Disclosure Statement with references The filing fee has been calculated as shown below: ITEM AS FILED FEXTRA SMALL ENTITY FULL FEE ** ** ** ** ** ** ** ** **	(%)	4 shee	x(s) of drawing	gs.				
A certified copy of . Priority is claimed if not already of record. A verified statement to establish small entity status under 37 CFR 1.9 and 37 CFR 1.27. Preliminary amendment. Information Disclosure Statement with references The filing fee has been calculated as shown below: ITEM AS FILED		An assignment						
A verified statement to establish small entity status under 37 CFR 1.9 and 37 CFR 1.27. Preliminary amendment. Information Disclosure Statement with references Information Disclosure Statement with references Information Disclosure Statement with references Information Disclosure Statement with references Information Disclosure Statement with references Information Disclosure Statement with references Information Disclosure Statement with references Information Disclosure Statement with references Information Disclosure Statement with references Information Disclosure Statement with references Information Disclosure Statement with references Information Statement	•			rventor(s).			
Preliminary amendment. Information Disclosure Statement with references		A certified copy	y of . Priority	y is clair	med if not already	of record.		
The filing fee has been calculated as shown below: TTEM AS FILED	X	A verified state	ment to establi	ish sma	ll entity status unde	er 37 CFR 1.9 and 37 CFR 1	.27.	
The filing fee has been calculated as shown below: TTEM AS FILED		Preliminary am	endment.					
Basic Fee Situitity S385. Utility S770.		Information Dis	sclosure Staten	ment wit	th references			
Basic Fee Situitity S385. Utility S770.					-1			
Basic Fee Xiuitity S385. Utility S770.	The file	ng tee has been o	calculated as s	hown b				
Design S160. Design S320.		ITEM AS	FILED		# EXTRA	SMALL ENTITY	FULL PEE	
Total Claims 5 - 20 = 1	Resid	Fee					The state of the s	
Total Claims 5 -20 =	Dasic					□ Design \$160.	□ Design \$320.	
Independent Claims 1 - 3 =	Total Claims		5 -	- 20 =	•	× \$ 11 =	× \$ 22 =	
TOTAL \$385.00 Please charge my Deposit Account Number 02-0200 in the amount of \$\frac{1}{2}\$ to cover the filing fee (and assignment recording fee, if any). A duplicate copy of this paper is enclosed. A check in the amount of \$385.00 to cover the filing fee (and assignment recording fee, if any) is enclosed. The Commissioner is hereby authorized to charge any additional fees associated with this communication, including patent application filing fees and processing fees under 37 CFR 1.16 and 37 CFR 1.17 or credit any overpayment to Deposit Account Number 02-0200. A duplicate copy of this paper is enclosed. Respectfully submitted, Respectfully Submitted, Respectfully Submitted, Respectfully Submitted, Subm	Indep	endent Claims	1	- 3 =	2	× \$ 40 =	× \$ 80 =	
Please charge my Deposit Account Number 02-0200 in the amount of								
Please charge my Deposit Account Number 02-0200 in the amount of	□м	ultiple Depender	nt Claims in P	roper F	orm Presented	+ \$130 =	+ \$260 =	
assignment recording fee, if any). A duplicate copy of this paper is enclosed. A check in the amount of \$385.00 to cover the filing fee (and assignment recording fee, if any) is enclosed. The Commissioner is hereby authorized to charge any additional fees associated with this communication, including patent application filing fees and processing fees under 37 CFR 1.16 and 37 CFR 1.17 or credit any overpayment to Deposit Account Number 02-0200. A duplicate copy of this paper is enclosed. BACON & THOMAS 625 SLATERS LANE - FOURTH FLOOR ALEXANDRIA, VIRGINIA 22314 (703) 683-0500 DATE: 30 May 1997 EUGENE MAR Attorney for Applicant	ΠМ	ultiple Depender	nt Claims in Pr	roper F			+ \$260 =	
assignment recording fee, if any). A duplicate copy of this paper is enclosed. A check in the amount of \$385.00 to cover the filing fee (and assignment recording fee, if any) is enclosed. The Commissioner is hereby authorized to charge any additional fees associated with this communication, including patent application filing fees and processing fees under 37 CFR 1.16 and 37 CFR 1.17 or credit any overpayment to Deposit Account Number 02-0200. A duplicate copy of this paper is enclosed. BACON & THOMAS 625 SLATERS LANE - FOURTH FLOOR ALEXANDRIA, VIRGINIA 22314 (703) 683-0500 DATE: 30 May 1997 EUGENE MAR Attorney for Applicant	□м	ultiple Dependen	nt Claims in Pr		TOTAL	\$385.00	+ \$260 =	
A check in the amount of \$385.00 to cover the filing fee (and assignment recording fee, if any) is enclosed. The Commissioner is hereby authorized to charge any additional fees associated with this communication, including patent application filing fees and processing fees under 37 CFR 1.16 and 37 CFR 1.17 or credit any overpayment to Deposit Account Number 02-0200. A duplicate copy of this paper is enclosed. BACON & THOMAS 625 SLATERS LANE - FOURTH FLOOR ALEXANDRIA, VIRGINIA 22314 (703) 683-0500 DATE: 30 May 1997 EUGENE MAR Antorney for Applicant				lf less ti	TOTAL han 20 filed, enter 0.	\$385.00 ² If less than 3 filed, enter 0.		
The Commissioner is hereby authorized to charge any additional fees associated with this communication, including patent application filing fees and processing fees under 37 CFR 1.16 and 37 CFR 1.17 or credit any overpayment to Deposit Account Number 02-0200. A duplicate copy of this paper is enclosed. BACON & THOMAS 625 SLATERS LANE - FOURTH FLOOR ALEXANDRIA, VIRGINIA 22314 (703) 683-0500 DATE: 30 May 1997 EUGENE MAR Autories for Applicant		ease charge my D	eposit Accou	if less to	TOTAL han 20 filed, enter 0. her 02-0200 in the	\$385.00 2 If less than 3 filed, enter 0. e amount of\$		
patent application filing fees and processing fees under 37 CFR 1.16 and 37 CFR 1.17 or credit any overpayment to Deposit Account Number 02-0200. A duplicate copy of this paper is enclosed. BACON & THOMAS 625 SLATERS LANE - FOURTH FLOOR ALEXANDRIA, VIRGINIA 22314 (703) 683-0500 DATE: 30 May 1997 EUGENE MAR Antorney for Applicant	□ Ple	ease charge my Dignment recording	eposit Accoung fee, if any).	lf less to	han 20 filed, enter 0. aber 02-0200 in the olicate copy of this	\$385.00 2 If less than 3 filed, enter 6. e amount of \$ paper is enclosed.	to cover the filing fee (and	
BACON & THOMAS 625 SLATERS LANE - FOURTH FLOOR ALEXANDRIA, VIRGINIA 22314 (703) 683-0500 DATE: 30 May 1997 EUGENE MAR Automety for Applicant	☐ Ple ass	ease charge my Dignment recording	eposit Accoung fee, if any). Sount of\$385	if less that Num A dup	TOTAL han 20 filed, enter 0. aber 02-0200 in the olicate copy of this to cover the file	\$385.00 2 If less than 3 filed, enter 0. 2 amount of _\$ paper is enclosed. 3 filed, enter 0. 4 ing fee (and assignment record	to cover the filing fee (and eding fee, if any) is enclosed.	
625 SLATERS LANE - FOURTH FLOOR ALEXANDRIA, VIRGINIA 22314 (703) 683-0500 DATE: 30 May 1997 EUGENE MAR Altorney for Applicant	☐ Pie ass	ease charge my D ignment recordin check in the amo	eposit Accoung fee, if any). ount of\$385	1 If less that Num A dup	TOTAL than 20 filed, enter 0. ther 02-0200 in the olicate copy of this to cover the file to charge any additional control of the cover the cove	\$385.00 2 If less than 3 filed, enter 0. 2 amount of _\$ paper is enclosed. 3 filed, enter 0. 4 amount of _\$ paper is enclosed. 5 ing fee (and assignment recommendational fees associated with this	to cover the filing fee (and rding fee, if any) is enclosed.	
625 SLATERS LANE - FOURTH FLOOR ALEXANDRIA, VIRGINIA 22314 (703) 683-0500 DATE: 30 May 1997 EUGENE MAR Altorney for Applicant	☐ Ple ass ☒ A ←	ease charge my D ignment recordin check in the amo e Commissioner tent application fi	peposit Account generation feet, if any). Sount of\$385 is hereby authorizing fees and percentage.	If less that Num A dup 5.00 horized to	TOTAL than 20 filed, enter 0. The object of this to cover the file to charge any addition fees under 37 C	\$385.00 2 If less than 3 filed, enter 0. 2 amount of \$_\text{paper is enclosed.}\$ ing fee (and assignment reconstitutional fees associated with this CFR 1.16 and 37 CFR 1.17 o	to cover the filing fee (and rding fee, if any) is enclosed.	
625 SLATERS LANE - FOURTH FLOOR ALEXANDRIA, VIRGINIA 22314 (703) 683-0500 DATE: 30 May 1997 EUGENE MAR Altorney for Applicant	☐ Ple ass ☒ A ←	ease charge my D ignment recordin check in the amo e Commissioner tent application fi	peposit Account generation feet, if any). Sount of\$385 is hereby authorizing fees and percentage.	If less that Num A dup 5.00 horized to	TOTAL than 20 filed, enter 0. The object of this to cover the file to charge any addition fees under 37 C	\$385.00 2 If less than 3 filed, enter 0. 2 amount of \$_\text{paper is enclosed.}\$ ing fee (and assignment reconstitutional fees associated with this CFR 1.16 and 37 CFR 1.17 o	to cover the filing fee (and rding fee, if any) is enclosed.	
625 SLATERS LANE - FOURTH FLOOR ALEXANDRIA, VIRGINIA 22314 (703) 683-0500 DATE: 30 May 1997 EUGENE MAR Altorney for Applicant	☐ Ple ass ☒ A ←	ease charge my D ignment recordin check in the amo e Commissioner tent application fi	peposit Account generation feet, if any). Sount of\$385 is hereby authorizing fees and percentage.	If less that Num A dup 5.00 horized to	TOTAL than 20 filed, enter 0. The object of this to cover the file to charge any addition fees under 37 C	\$385.00 2 If less than 3 filed, enter 0. 2 amount of \$_\text{paper is enclosed.}\$ ing fee (and assignment reconstitutional fees associated with this CFR 1.16 and 37 CFR 1.17 o	to cover the filing fee (and rding fee, if any) is enclosed.	
625 SLATERS LANE - FOURTH FLOOR ALEXANDRIA, VIRGINIA 22314 (703) 683-0500 DATE: 30 May 1997 EUGENE MAR Altorney for Applicant	☐ Ple ass ☒ A ←	ease charge my D ignment recordin check in the amo e Commissioner tent application fi	peposit Account generation feet, if any). Sount of\$385 is hereby authorizing fees and percentage.	If less that Num A dup 5.00 horized to	TOTAL than 20 filed, enter 0. The object of this to cover the file to charge any addition fees under 37 C	\$385.00 2 If less than 3 filed, enter 0. 2 amount of \$_\text{paper is enclosed.}\$ ing fee (and assignment reconstitutional fees associated with this CFR 1.16 and 37 CFR 1.17 o	to cover the filing fee (and rding fee, if any) is enclosed.	
625 SLATERS LANE - FOURTH FLOOR ALEXANDRIA, VIRGINIA 22314 (703) 683-0500 DATE: 30 May 1997 EUGENE MAR Altorney for Applicant	☐ Ple ass A • The pat	ease charge my D ignment recordin check in the amo e Commissioner tent application fi	peposit Account generation feet, if any). Sount of\$385 is hereby authorizing fees and percentage.	If less that Num A dup 5.00 horized to	TOTAL than 20 filed, enter 0. The object of this to cover the file to charge any addition fees under 37 C	\$385.00 2 If less than 3 filed, enter 0. 2 amount of \$_\text{paper is enclosed.}\$ ing fee (and assignment reconstitutional fees associated with this CFR 1.16 and 37 CFR 1.17 o	to cover the filing fee (and rding fee, if any) is enclosed.	
625 SLATERS LANE - FOURTH FLOOR ALEXANDRIA, VIRGINIA 22314 (703) 683-0500 DATE: 30 May 1997 EUGENE MAR Altorney for Applicant	☐ Ple ass A • The pat	ease charge my D ignment recordin check in the amo e Commissioner tent application fi	peposit Account generation feet, if any). Sount of\$385 is hereby authorizing fees and percentage.	If less that Num A dup 5.00 horized to	TOTAL than 20 filed, enter 0. The object of this to cover the file to charge any addition fees under 37 C	\$385.00 2 If less than 3 filed, enter 0. 2 amount of \$_\text{paper is enclosed.}\$ ing fee (and assignment reconstitutional fees associated with this CFR 1.16 and 37 CFR 1.17 o	to cover the filing fee (and rding fee, if any) is enclosed.	
625 SLATERS LANE - FOURTH FLOOR ALEXANDRIA, VIRGINIA 22314 (703) 683-0500 DATE: 30 May 1997 EUGENE MAR Altorney for Applicant	☐ Ple ass A • The pat	ease charge my D ignment recordin check in the amo e Commissioner tent application fi	peposit Account generation feet, if any). Sount of\$385 is hereby authorizing fees and percentage.	If less that Num A dup 5.00 horized to	TOTAL than 20 filed, enter 0. The object of this to cover the file to charge any addition fees under 37 C	\$385.00 2 If less than 3 filed, enter 0. 2 amount of \$_\text{paper is enclosed.}\$ ing fee (and assignment reconstitutional fees associated with this CFR 1.16 and 37 CFR 1.17 o	to cover the filing fee (and rding fee, if any) is enclosed.	
625 SLATERS LANE - FOURTH FLOOR ALEXANDRIA, VIRGINIA 22314 (703) 683-0500 DATE: 30 May 1997 EUGENE MAR Altorney for Applicant	☐ Ple ass A • The pat	ease charge my D ignment recordin check in the amo e Commissioner tent application fi	peposit Account generation feet, if any). Sount of\$385 is hereby authorizing fees and percentage.	If less that Num A dup 5.00 horized to	TOTAL than 20 filed, enter 0. The object of this to cover the file to charge any addition fees under 37 C	\$385.00 2 If less than 3 filed, enter 0. 2 amount of \$_\text{paper is enclosed.}\$ ing fee (and assignment reconstitutional fees associated with this CFR 1.16 and 37 CFR 1.17 o	to cover the filing fee (and rding fee, if any) is enclosed.	
(703) 683-0500 DATE: 30 May 1997 EUGENE MAR Attorney for Applicant	☐ Pice ass ☑ A c ☑ The pat De	ease charge my Dignment recording the check in the amore Commissioner tent application fire posit Account N	peposit Accoung fee, if any). Sount of\$385 is hereby auth ling fees and plumber 02-02	If less that Num A dup 5.00 horized to	TOTAL than 20 filed, enter 0. The object of this to cover the file to charge any addition fees under 37 C	\$385.00 2 If less than 3 filed, enter 0. 2 amount of \$\frac{1}{2}\$ paper is enclosed. 3 ing fee (and assignment reconstitutional fees associated with this EFR 1.16 and 37 CFR 1.17 of this paper is enclosed.	to cover the filing fee (and rding fee, if any) is enclosed. communication, including r credit any overpayment to	
DATE: 30 May 1997 EUGENE MAR Attorney for Applicant	□ Pice ass ☑ A c ☑ The pat De	case charge my Dignment recording check in the amore Commissioner tent application financial Account No. 2 THOMAS.	peposit Accoung fee, if any). Sount of\$385 is hereby auth ling fees and plumber 02-02	nt Num A dup 5.00 corized t processi	TOTAL than 20 filed, enter 0. The object of this to cover the file to charge any addition fees under 37 C	\$385.00 2 If less than 3 filed, enter 0. 2 amount of \$\frac{1}{2}\$ paper is enclosed. 3 ing fee (and assignment reconstitutional fees associated with this EFR 1.16 and 37 CFR 1.17 of this paper is enclosed.	to cover the filing fee (and rding fee, if any) is enclosed. communication, including r credit any overpayment to	
Attorney for Applicant	BACO 625 SI ALEXA	case charge my Dignment recording the check in the amount of the commissioner application for the count North Account North North Account North Nort	peposit Accoung fee, if any). Sount of\$385 is hereby auth ling fees and plumber 02-02	nt Num A dup 5.00 corized t processi	TOTAL than 20 filed, enter 0. The object of this to cover the file to charge any addition fees under 37 C	\$385.00 2 If less than 3 filed, enter 0. 2 amount of \$\frac{1}{2}\$ paper is enclosed. 3 ing fee (and assignment reconstitutional fees associated with this EFR 1.16 and 37 CFR 1.17 of this paper is enclosed.	to cover the filing fee (and rding fee, if any) is enclosed. communication, including r credit any overpayment to	
	BACO 625 SI ALEXA	case charge my Dignment recording the check in the amount of the commissioner application for the count North Account North North Account North Nort	peposit Accoung fee, if any). Sount of\$385 is hereby auth ling fees and plumber 02-02	nt Num A dup 5.00 corized t processi	to cover the file to charge any additing fees under 37 C	\$385.00 2 If less than 3 filed, enter 0. 2 amount of \$\frac{1}{2}\$ paper is enclosed. 3 ing fee (and assignment reconstitutional fees associated with this EFR 1.16 and 37 CFR 1.17 of this paper is enclosed.	to cover the filing fee (and rding fee, if any) is enclosed. communication, including r credit any overpayment to	
	BACO 625 SI ALEXA (703) 6	case charge my Dignment recording the check in the amore Commissioner application for applicat	S FOURTH FLOCIA 22314	nt Num A dup 5.00 corized t processi	to cover the file to charge any additing fees under 37 C	\$385.00 2 If less than 3 filed, enter 0. 2 amount of \$\frac{1}{2}\$ paper is enclosed. 3 ing fee (and assignment recommendational fees associated with this EFR 1.16 and 37 CFR 1.17 of this paper is enclosed. Respectfully subsequently subs	to cover the filing fee (and rding fee, if any) is enclosed. communication, including r credit any overpayment to	